

**Amendments to the Claims**

This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

Claims 1-42 (Cancelled)

43. (New) A method for defining data mappings between data elements in a first data structure and data elements in a second data structure, the method comprising:

selecting a first data element in the first data structure for mapping;

suggesting a first possible data mapping definition to a user based on a first previous data mapping definition, the first possible data mapping definition defining a mapping from the first data element in the first data structure to a first data element in the second data structure; and

mapping the first data element in the first data structure to the first data element in the second data structure according to the first possible data mapping definition in response to acceptance of the first possible data mapping definition by the user,

wherein the first previous data mapping definition defines a mapping from a data element in a third data structure to a data element in a fourth data structure, at least one of the third and fourth data structures being different from the first and second data structures.

44. (New) The method of claim 43, wherein a data structure is a message and a data element in the data structure is a field in the message.

45. (New) The method of claim 44, wherein the first previous data mapping definition comprises a message field to message field definition or a message name to message name definition.

46. (New) The method of claim 43, wherein the first previous data mapping definition is a user-defined data mapping definition.

47. (New) The method of claim 43, wherein the first data structure is part of a first set of data structures and the second data structure is part of a second set of data structures and wherein at least one of the third and fourth data structures is part of the first set of data structures or part of the second set of data structures.

48. (New) The method of claim 43, further comprising:

mapping the first data element in the first data structure to a second data element in the second data structure according to a data mapping definition defined by the user in response to rejection of the first possible data mapping definition by the user; and

storing the data mapping definition defined by the user for future use.

49. (New) The method of claim 43, further comprising:

suggesting a second possible data mapping definition based on a second previous data mapping definition, the second previous data mapping definition defining a mapping from a data element in a fifth data structure to a data element in a sixth data structure; and

prioritizing the first possible data mapping definition and the second possible data mapping definition based on a predefined rule.

50. (New) The method of claim 49, wherein the predefined rule specifies the first possible data mapping definition is ranked higher than the second possible data mapping definition when each of the third and fourth data structures is part of a first data structure set containing the first data structure or is part of a second data structure set containing the second data structure and when at least one of the fifth and sixth data structures is not part of the first data structure set and is not part of the second data structure set.

51. (New) The method of claim 49, wherein the predefined rule specifies the first possible data mapping definition is ranked higher than the second possible data mapping definition when at least one of the third and fourth data structures is part of a first data structure set containing the first data structure or is part of a second data structure set containing the second data structure and when none of the fifth and sixth data structures are part of the first data structure set or part of the second data structure set.

52. (New) The method of claim 43, wherein the first possible data mapping definition is based on a reverse of the first previous data mapping definition.

53. (New) A computer program product comprising a computer readable medium, the computer readable medium including a computer readable program for defining data mappings

between data elements in a first data structure and data elements in a second data structure, wherein the computer readable program when executed on a computer causes the computer to:

select a first data element in the first data structure for mapping;

suggest a first possible data mapping definition to a user based on a first previous data mapping definition, the first possible data mapping definition defining a mapping from the first data element in the first data structure to a first data element in the second data structure; and

map the first data element in the first data structure to the first data element in the second data structure according to the first possible data mapping definition in response to acceptance of the first possible data mapping definition by the user,

wherein the first previous data mapping definition defines a mapping from a data element in a third data structure to a data element in a fourth data structure, at least one of the third and fourth data structures being different from the first and second data structures.

54. (New) The computer program product of claim 53, wherein a data structure is a message and a data element in the data structure is a field in the message.

55. (New) The computer program product of claim 54, wherein the first previous data mapping definition comprises a message field to message field definition or a message name to message name definition.

56. (New) The computer program product of claim 53, wherein the first previous data mapping definition is a user-defined data mapping definition.

57. (New) The computer program product of claim 53, wherein the first data structure is part of a first set of data structures and the second data structure is part of a second set of data structures and wherein at least one of the third and fourth data structures is part of the first set of data structures or part of the second set of data structures.

58. (New) The computer program product of claim 53, wherein the computer readable program when executed on the computer further causes the computer to:

map the first data element in the first data structure to a second data element in the second data structure according to a data mapping definition defined by the user in response to rejection of the first possible data mapping definition by the user; and

store the data mapping definition defined by the user for future use.

59. (New) The computer program product of claim 53, wherein the computer readable program when executed on the computer further causes the computer to:

suggest a second possible data mapping definition based on a second previous data mapping definition, the second previous data mapping definition defining a mapping from a data element in a fifth data structure to a data element in a sixth data structure; and

prioritize the first possible data mapping definition and the second possible data mapping definition based on a predefined rule.

60. (New) The computer program product of claim 59, wherein the predefined rule specifies the first possible data mapping definition is ranked higher than the second possible data mapping definition when each of the third and fourth data structures is part of a first data structure set

containing the first data structure or is part of a second data structure set containing the second data structure and when at least one of the fifth and sixth data structures is not part of the first data structure set and is not part of the second data structure set.

61. (New) The computer program product of claim 59, wherein the predefined rule specifies the first possible data mapping definition is ranked higher than the second possible data mapping definition when at least one of the third and fourth data structures is part of a first data structure set containing the first data structure or is part of a second data structure set containing the second data structure and when none of the fifth and sixth data structures are part of the first data structure set or part of the second data structure set.

62. (New) The computer program product of claim 53, wherein the first possible data mapping definition is based on a reverse of the first previous data mapping definition.

63. (New) A system for defining data mappings between data elements in a first data structure and data elements in a second data structure, the system comprising:

means for selecting a first data element in the first data structure for mapping;

means for suggesting a first possible data mapping definition to a user based on a first previous data mapping definition, the first possible data mapping definition defining a mapping from the first data element in the first data structure to a first data element in the second data structure; and

means for mapping the first data element in the first data structure to the first data element in the second data structure according to the first possible data mapping definition in response to acceptance of the first possible data mapping definition by the user,

wherein the first previous data mapping definition defines a mapping from a data element in a third data structure to a data element in a fourth data structure, at least one of the third and fourth data structures being different from the first and second data structures.

64. (New) The system of claim 63, wherein a data structure is a message and a data element in the data structure is a field in the message.

65. (New) The system of claim 64, wherein the first previous data mapping definition comprises a message field to message field definition or a message name to message name definition.

66. (New) The system of claim 63, wherein the first previous data mapping definition is a user-defined data mapping definition.

67. (New) The system of claim 63, wherein the first data structure is part of a first set of data structures and the second data structure is part of a second set of data structures and wherein at least one of the third and fourth data structures is part of the first set of data structures or part of the second set of data structures.

68. (New) The system of claim 63, further comprising:

means for mapping the first data element in the first data structure to a second data element in the second data structure according to a data mapping definition defined by the user in response to rejection of the first possible data mapping definition by the user; and

means for storing the data mapping definition defined by the user for future use.

69. (New) The system of claim 63, further comprising:

means for suggesting a second possible data mapping definition based on a second previous data mapping definition, the second previous data mapping definition defining a mapping from a data element in a fifth data structure to a data element in a sixth data structure; and

means for prioritizing the first possible data mapping definition and the second possible data mapping definition based on a predefined rule.

70. (New) The system of claim 69, wherein the predefined rule specifies the first possible data mapping definition is ranked higher than the second possible data mapping definition when each of the third and fourth data structures is part of a first data structure set containing the first data structure or is part of a second data structure set containing the second data structure and when at least one of the fifth and sixth data structures is not part of the first data structure set and is not part of the second data structure set.

71. (New) The system of claim 69, wherein the predefined rule specifies the first possible data mapping definition is ranked higher than the second possible data mapping definition when



at least one of the third and fourth data structures is part of a first data structure set containing the first data structure or is part of a second data structure set containing the second data structure and when none of the fifth and sixth data structures are part of the first data structure set or part of the second data structure set.

72. (New) The system of claim 63, wherein the first possible data mapping definition is based on a reverse of the first previous data mapping definition.